

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims

1. (Original) A method of gathering statistical information comprising:
calculating a holding time for a single call; and
calculating a holding time of a soft added call.
2. (Original) The method of claim 1, wherein the single call relates to a call of a mobile terminal with respect to one base station.
3. (Original) The method of claim 1, wherein the soft added call relates to a call of a mobile terminal with respect to more than one base station.
4. (Original) The method of claim 1, further comprising determining a holding time based on the calculated holding time of the single call and the calculated holding time of the soft added call.

5. (Original) The method of claim 4, wherein calculating the holding time of the single call comprises counting a period when an originated/terminated call is set up.

6. (Currently Amended) The method of claim 5, wherein calculating the holding time of the single call comprises counting the holding time from a point of time when a channel resource is occupied due to a call origination/termination to a base station to a point of time when the channel resource is withdrawn.

7. (Currently Amended) The method of claim 5, wherein calculating the holding time of the soft added call comprises counting the holding time from a point of time when a channel resource is occupied due to receipt of a call origination/termination request message to a point of time when a soft add notification message is received from another base station after call setup in response to the call origination/termination request message, and counting the holding time from a point of time when the soft drop notification message is received from the another base station to a point of time when the channel resource is withdrawn due to completion of the soft added call.

8. (Original) The method of claim 1, wherein calculating the holding time of the soft added call includes calculating a handoff holding time by counting a period when soft added calls are set up.

9. (Original) The method of claim 8, wherein calculating the handoff holding time comprises counting the handoff holding time from a point of time when a source base station receives a soft add notification message from another base station to a point of time when the channel resource is withdrawn.

10. (Original) The method of claim 8, wherein calculating the handoff holding time comprises counting the handoff holding time from a point of time when the channel resource is occupied due to a target base station's receipt of a handoff request from a mobile terminal to a point of time when the target base station receives a soft drop notification message from another base station.

11. (Original) The method of claim 8, wherein calculating the handoff holding time comprises counting the handoff holding time from a point of time when the channel resource is occupied due to a neighboring base station's receipt of a handoff request from a mobile terminal to a point of time when the neighboring base station transmits a soft drop notification message and the channel resource is withdrawn.

12. (Original) A method of gathering statistical information regarding a mobile communication system, comprising:

calculating a holding time by counting a period of an originated/terminated call;
and
calculating a handoff holding time by counting a period when soft added calls are
set up due to a handoff.

13. (Original) The method of claim 12, wherein calculating the holding time
comprises:

setting up a single call by a source base station's detecting the
originated/terminated call and allotting a channel resource; and
starting a first holding timer.

14. (Original) The method of claim 13, wherein when the source base station receives
a soft added notification message from another base station, calculating the holding time further
comprises calculating a first holding time based on said first holding timer.

15. (Original) The method of claim 14, wherein when a new single call for a target
base station is set up and the other base stations are dropped, calculating the holding time
further comprises starting a second holding timer.

16. (Original) The method of claim 15, wherein when the single call for the target base station is completed, calculating the holding time further comprises withdrawing the channel resource and calculating a second holding time by stopping said second holding timer.

17. (Original) The method of claim 12, wherein calculating the handoff holding time comprises:

setting up a soft added call by a target base station's detecting a handoff request from a mobile terminal, transmitting a soft add notification message, allotting a channel resource, and beginning a first handoff holding timer.

18. (Original) The method of claim 17, wherein when a source base station receives the soft add notification message from another base station, calculating the handoff holding time further comprises beginning a second handoff holding timer.

19. (Original) The method of claim 18, wherein when a soft added call for the source base station is completed, calculating the handoff holding time further comprises transmitting a soft drop notification message, withdrawing the channel resource and calculating a first handoff holding time by stopping said first handoff holding timer.

20. (Original) The method of claim 19, wherein when the target base station receives the soft drop notification message from another base station, calculating the handoff holding time further comprises calculating a second handoff holding time by stopping the second handoff holding timer.

21. (Original) A method comprising:
determining a channel resource occupancy for a single call; and
determining a channel resource occupancy for a soft added call.

22. (Original) The method of claim 21, wherein the single call relates to a call of a mobile terminal with respect to one base station.

23. (Original) The method of claim 21, wherein the soft added call relates to a call of a mobile terminal with respect to more than one base station.

24. (Original) The method of claim 21, wherein the channel resource occupancy for the single call comprises a holding time.

25. (Original) The method of claim 24, wherein determining the channel resource occupancy for the single call comprises calculating the holding time by counting a period when an originated/terminated call is set up.

26. (Currently Amended) The method of claim ~~[[24]]~~25, wherein calculating the holding time includes counting the holding time from a point of time when a channel resource is occupied due to a call origination/termination to a base station to a point of time when the channel resource is withdrawn.

27. (Currently Amended) The method of claim ~~[[24]]~~25, wherein calculating the holding time includes counting the holding time from a point of time when a channel resource is occupied due to receipt of a call origination/termination request message to a point of time when a soft add notification message is received from ~~an other~~ another base station after call setup in response to the call origination/termination request message, and counting the holding time from a point of time when the soft drop notification message is received from the another base station to a point of time when the channel resource is withdrawn due to completion of the soft added call.

28. (Currently Amended) The method of claim 21, wherein the channel resource occupancy for the soft added ~~cell~~ call comprises a handoff holding time.

29. (Original) The method of claim 28, wherein determining the channel resource occupancy for the soft added call comprises calculating a handoff holding time by counting a period when soft added calls are set up.

30. (Currently Amended) The method of claim 29, wherein calculating the handoff holding time includes counting the handoff holding time from a point of time when a source base station receives a soft add notification message from another base ~~stations~~station to a point of time when the channel resource is withdrawn.

31. (Currently Amended) The method of claim 29, wherein calculating the handoff holding time includes counting the handoff holding time from a point of time when the channel resource is occupied due to a target base station's receipt of a handoff request from a mobile terminal to a point of time when the target base station receives a soft drop notification ~~messages~~message from another base station.

32. (Currently Amended) The method of claim 29, wherein calculating the handoff holding time includes counting the handoff holding time from a point of time when the channel resource is occupied due to a neighbor base station's receipt of a handoff request from a mobile terminal to a point of time when the neighbor base station transmits a soft drop notification message and the channel resource is withdrawn.